

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Jozef J. Van Dun et al.

Application No.: Not Yet Assigned

Confirmation No.:

Filed: Concurrently Herewith

Art Unit: N/A

For: **BIMODAL POLYETHYLENE PIPE
COMPOSITION AND ARTICLES MADE
THEREFROM**

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. All of the art cited has been cited in a previous related application, i.e. Serial No. 10/222,273. Therefore, no copies of the references are enclosed. However, we will provide any references to the Examiner that he/she may require.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any

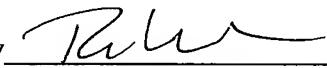
patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 10-0447, under Order No. 43225-44575CUSC. A duplicate copy of this paper is enclosed.

Dated: April 2, 2004

Respectfully submitted,

By 

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3 Attorney Docket Number 43225.44575USPT

Complete if Known

Application Number	10/222,273
Filing Date	8/16/2002
First Named Inventor	Van Dun
Group Art Unit	1714
Examiner Name	

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ⁴ (if known)			
1	US-3,456,044		07/15/1969	Pahlke	
2	US-3,485,706		12/23/1969	Evans	
3	US-3,645,992		02/29/1972	Elston	
4	US-4,322,027		03/30/1982	Reba	
5	US-4,340,563		07/20/1982	Appel et al.	
6	US-4,352,849		10/05/1982	Mueller	
7	US-4,413,110		11/01/1983	Kavesh et al.	
8	US-4,597,920		07/01/1986	Golike	
9	US-4,663,220		05/05/1987	Wisneski et al.	
10	US-4,668,566		05/26/1987	Braun	
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Examiner Initials	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
22	EP 089,586 A1		09/28/1983	BASF		
23	WO90/03414 A1		04/05/1990	Exxon Chemical		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
24		Borealis Unveils Borstar - Its New Proprietary Polyethylene Technology, Press Release, October 10, 1995.	
25		MAPLESTON, P., Infrared Process is Fast and Repeatable, Mod. Plast. Int., V. 22, No. 10, Oct. 1992, p. 34/8, abstract only.	

Examiner Signature	Date Considered

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Sheet

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		Number-Kind Code ² (if known)			
	26	US-5,206,075	04/27/1993	Hodgson, Jr.	
	27	US-5,218,071	06/08/1993	Tsutsui et al.	
	28	US-5,241,031	08/31/1993	Mehta	
	29	US-5,252,017	10/12/1993	Hodel	
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	41	US-6,218,472 B1	04/17/2001	Debras et al.	
	42	US-6,221,982 B1	04/24/2001	Debras et al.	
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	47	WO 93/03093	02/18/1993	Exxon Chemicals		
	48	WO 96/16092	05/30/1996	Dow Chemical		
	49	WO 96/28480	09/19/1996	Dow Chemical		
	50	WO 97/19807	06/05/1997	Borealis A/S		
	51	WO 97/33118	09/12/1997	Borealis A/S		
	52	WO 97/43323	11/20/1997	Dow Chemical		

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	53	YERNAUX J., Polymer Developments for Pipe Systems, Polyethylene: The 1990s and Beyond, Conference Proceedings London, 19th-20th May 1992, Paper 16, 42C11 PRI;BP Chemicals Ltd.; Shell Chemicals Ltd.; European Chemical News.	

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Sheet

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First Named Inventor Van Dun

Group Art Unit 1714

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	54	US-6,191,227 B1	02/20/2001	Matsuoka, et al.	
	55	US-6,204,349 B1	03/20/2001	Shinohara et al.	
	56	US-6,252,017 B1	06/26/2001	Debras et al.	
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	57	WO 98/27119	06/25/1998	Dow Chemical		
	58	WO 99/14271	03/25/1999	Dow Chemical		
	59	WO 01/05852	01/25/2001	Dow Chemical		
	60	WO 01/02480 A1	01/11/2001	Elenac GMBH		
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	65	EP 1201713 A1	05/02/2002	Atofina Research		

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		Author	Title	
	66	BERTHOLD, et al., Advanced Polymerization Process for Tailor-Made Pipe Resins, Plastics Pipe IX, Edinburgh, 9/1995, pp. 433-441.		
	67	BOHM et al., The Industrial Synthesis of Bimodal Polyethylene Grades with Improved Properties, Stud. Surf. Sci. Catal., 1994, pp. 351-63, V. 89.		
	68	BOHM et al., The Microreactor Model-Guideline for PE-HD Process and Product Development, Ziegler Catalysts, 1995, 387-400.		

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				Attorney Docket Number	43225.44575USPT

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